

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
24 December 2003 (24.12.2003)

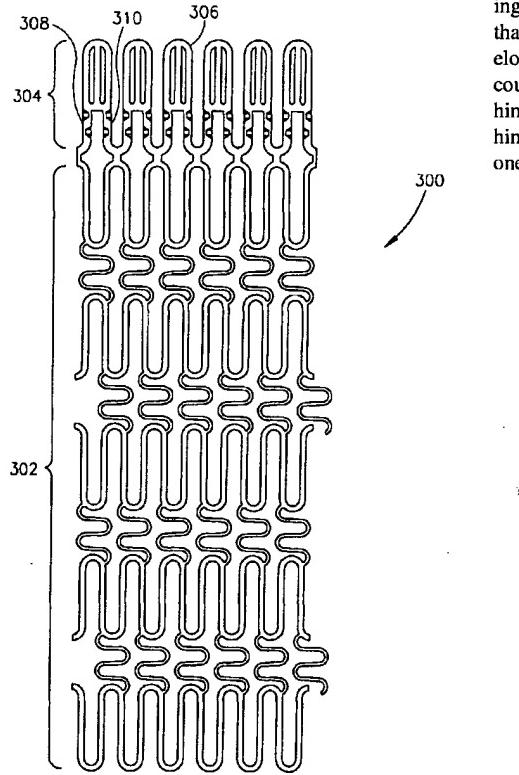
PCT

(10) International Publication Number  
**WO 03/105695 A2**

- (51) International Patent Classification<sup>7</sup>: **A61B 17/00**
- (21) International Application Number: PCT/IL03/00503
- (22) International Filing Date: 12 June 2003 (12.06.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
60/387,930 13 June 2002 (13.06.2002) US
- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:  
US 119e of 60/387,930 (CIP)  
Filed on 13 June 2002 (13.06.2002)
- (71) Applicant (for all designated States except US): EXISTENT, INC. [US/US]; 2711 CENTERVILLE ROAD, SUITE 400, COUNTY OF NEW CASTLE, WILMINGTON, DE 19808 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): GLOBERMAN, Oren [IL/IL]; 30 DERECH HAGANIM STREET, 46910 KFAR-SHAMARYAHU (IL).
- (74) Agents: FENSTER, Paul et al.; FENSTER & COMPANY, INTELLECTUAL PROPERTY 2002 LTD., P. O. BOX 10256, 49002 PETACH TIKVA (IL).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: MECHANICAL STRUCTURES AND IMPLANTS USING SAID STRUCTURES



(57) Abstract: A deformable medical implant, comprising: a body defining at least two anchor points, which body is adapted to be deformed so that the two anchor points are moved relative to each other; at least two elongate extensions, each extension fixed to one anchor point; a bridge coupling at least two of said extensions to each other; and at least two hinges defined on at least one of said extensions, two of said at least two hinges having different preferred bending directions and being defined on one extension.

WO 03/105695 A2